

**METHODS AND SYSTEMS FOR PROVIDING AN ASYMMETRIC ETHERNET  
SERVICE**

**ABSTRACT**

5           Methods and systems provide an asymmetric Ethernet service. An Ethernet  
network transports Ethernet frames over an asymmetric connection to a point of service  
for a subscriber located remotely from the Ethernet network, and the Ethernet connection  
is asymmetric in that the effective data transfer rates for uploading and downloading of  
data over the Ethernet connection are different. The subscriber may then have Ethernet  
10   capable network devices such as routers and computers linked to the point of service so  
that data transfer between the network devices of the subscriber and the Ethernet network  
occurs over the asymmetric Ethernet connection. The Ethernet network allows for  
communication between the network devices of the subscriber and any desired Ethernet  
network resources, such as network resources located on the Ethernet network or  
15   resources of downstream networks such as the global Internet that are available through  
the Ethernet network.